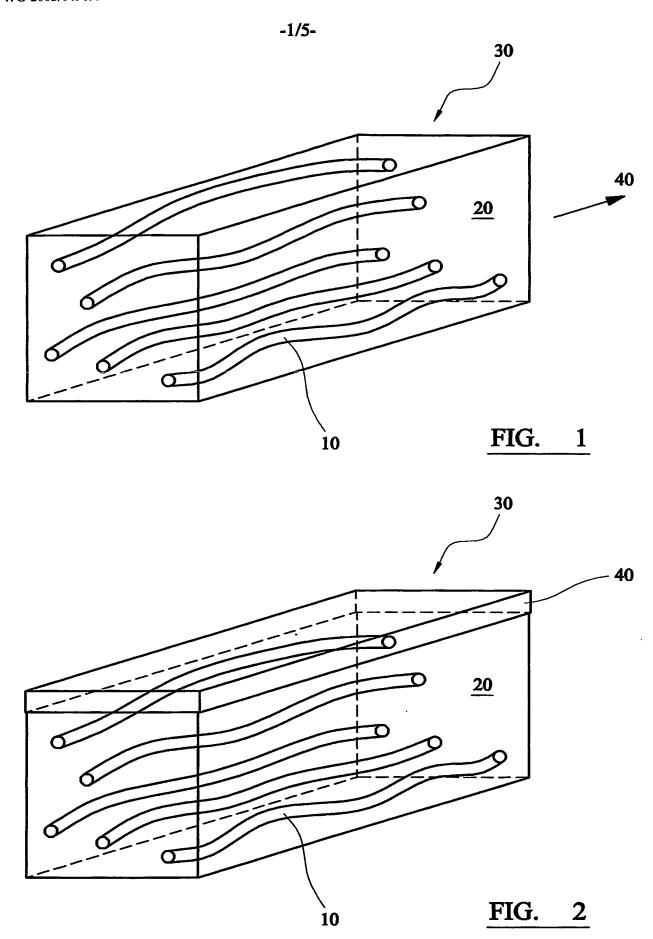
WO 2005/049099 PCT/EP2004/012295



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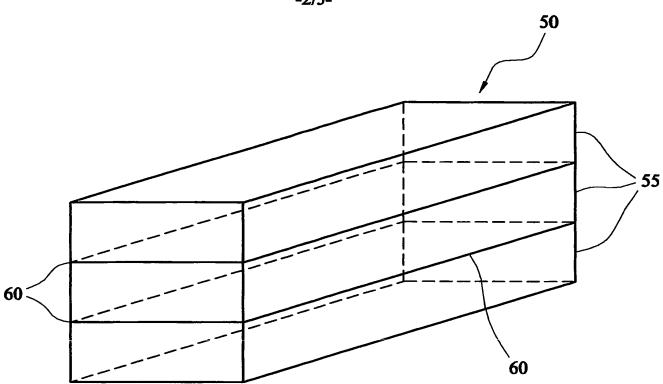


FIG. 3

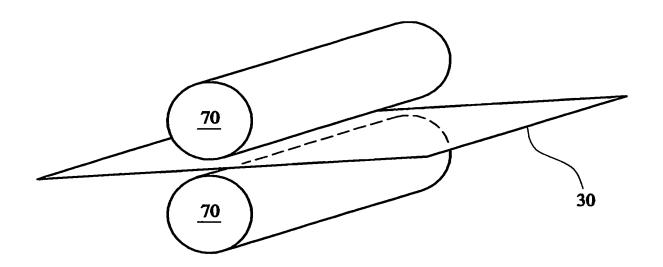
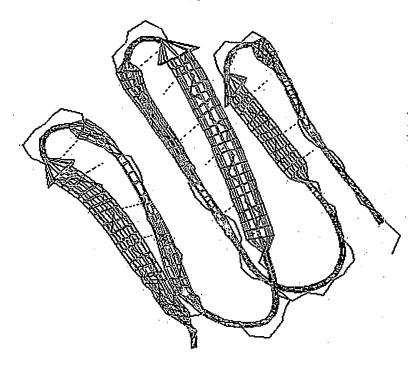


FIG. 4

Consenus repeat structure of serioin precursor protein									
No. of Repeats   Total Score   Length   Diagonal   EW-From   EW-To   Level									
		7	529.97	3:	5	35	327]	351	1
131-	164	(46.31/	7.35)		eess.	.ASSSR	AASSTO	asentdene	 Med
		(82.44/	•				• •	ssentdens	
203-	240	(83.27/	20.91)	GSSTEGG	OYTES	YSSNSR	DGSV\$T7G	sssntdsne	NSV
241-	278	(68.12/	15.35)	GSRRSGG	esshe	desker	DENVETTG	sasntdsns	vsv
279-	316	(82.44/	20.60)	GSSTSGG	RRTYG	Yesner	DGSV88TG:	sssntdsns	nsv
317-	354	(84.15/	21.23)	<b>GSST\$G</b>	SSTYG	Yesner	DGSV8STG:	Seentdens	nsa
355~	389	(83.23/	20.90	CSSTEGG	estyg	Yeensh	DGEVSSTG	RASCTARES	

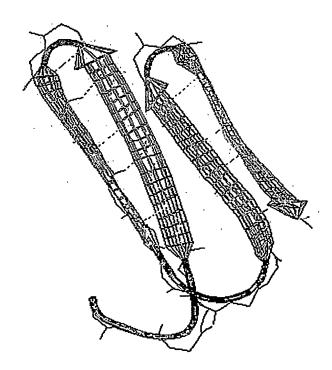
## FIG. 5

-4/5-



Ice nucleation protien (inaz) from the published PDB file

FIG. 6



Swiss model for consensus sequence of sericin precursor protein using inaz as a template

FIG. 7

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The best LALIGN alignment of sericin precursor protein with INAC.

24.4% identity in 336 aa overlap; score: 265 E(10,000): 4.9e-16 STGTAGADSSLIAGYGSTQTSGSESSLTAGYGSTQTAREGSTLTAGYGSTGTAGADSSLI INAZ :.:. : : : :::::. :.:... serici SAGAHRAKSVEQSQDKSKYTSGPEGVSTSGRSQNYKDSKQAIISGGTKSSNSNVQSDEKS INAZ AGYGSTQTSGSESSLTAGYGSTQTAQQGSVLTSGYGSTQTAGAASNLTTGYGSTGTAGHE i. .i.. i..ii. .. .i..i ...i . . .ii.... ... ... ::. ..... serici ASQSSSRSSQESASYSSSSSSTEESSSSSRAASSTDASSNTDSNSNSAGSSTSGGRR SFIIAGY---GSTQTAGHKSILTAGYGSTQTARDGSDLIAGYGSTGTAGS----GSSLIA ::...: .. ... .. .:.. ::.:.. :: serici TYGYSSNSRDGSVSSTGSSSNTDSNSSNAGSSTSGGSSTYGYSSNSRDGSVSTTGSSSNT GYGSTQTASYRSMLTAGYGSTQTAREHSDLVTGYGSTSTAGSNSSLIAGYGSTQTAGFKS INAZ serici DSNSNSVGSRRSGGSSSHEDSSKSRDENVSTTGSSSNTDSNSNSVGSSTSGGRRTYGYSS 

## FIG. 8